

State of Arizona Resources:

Arizona State Government Home Page

Arizona Legislative Information System (ALIS)

AZ Legislative Tracking (ASU/AZ Capitol Times)

Arizona State Agency Index

Arizona Department of Education (ADE)

Academic Service Division

Arizona K-12 School Web Sites

ASPIN K-12 Home Page

K-12+ Servers in Arizona

The Arizona School Web

Web66 Arizona K-12 Schools

K-12 Educational Resources

AZ School Services through Educational Technology (ASSET)

CNIDR WWW Servers for Education

EdWeb (exploring technology and school reform)

Arizona Information Technology

Department of Administration (DOA)

Department of Commerce (DOC)

Arizona Business Assistance Center

Arizona Business Connection

Arizona Film Commission

Arizona Film and Video Production

Arizona Online Film Production Directory

International Trade and Investment

National Marketing (business relocation support)

Office of High Technology

Arizona High Technology Annual Report

Strategic Planning

Department of Library, Archives and Public Records (DLAPR)

Governor's Office of Telecommunications Policy

Arizona U.S. Congressional Delegation

Arizona State & Local Government (Library of Congress)

<http://www.state.az.us/>

<http://www.azleg.state.az.us/>

<gopher://info.asu.edu:70/11/asu-cwis/pctp/legact>

<http://www.state.az.us/pages/agencyin.htm>

<http://www.ade.state.az.us/>

<http://www.ade.state.az.us/asd/index.html>

<http://www.ade.state.az.us/schools/index.html>

<http://aspin.asu.edu/~aspin/phaseIII/>

<http://www.tenet.edu/education/states/arizona.html>

<http://www.isdnet.com/azedweb.htm>

<http://web66.coled.umn.edu/schools/US/Arizona.html>

<http://www.ade.state.az.us/dataview/hotlinks.html>

<http://www.kaet.asu.edu/asset/asset.htm>

<http://kudzu.cnidr.org/Education/education.html>

<http://k12.cnidr.org:90/>

http://www.state.az.us/pages/info_tec.htm

<http://www.state.az.us/ad/ad.html>

<http://www.state.az.us/ep/commhome.shtml>

<http://www.state.az.us/ep/abc/abc.shtml>

<http://www.state.az.us/ep/abc/abcinfo.shtml>

<http://www.state.az.us/ep/mopic/mopic.shtml>

<http://www.bensonassoc.com/bensonassoc/film/home.html>

<http://www.primenet.com/arizona/index.html>

<http://www.state.az.us/ep/itrade/itrade.shtml>

<http://www.state.az.us/ep/natmrk/natmrk.shtml>

<http://www.state.az.us/ep/hightech/hightech.shtml>

<http://www.state.az.us/ep/hightech/htech.shtml>

<http://www.state.az.us/ep/stratpln/stratpln.shtml>

<http://www.lib.state.az.us/> (pending)

(e-mail - jkelly@ad.state.az.us, WWW pending)

<http://aspin.asu.edu/~pctp/azdeleg.html>

<http://lcweb.loc.gov/global/state/az-gov.html>

Arizona Non-Governmental Resources:

Arizona Humanities Council

Arizona Newspaper Association

Arizona Central (Republic/Gazette/PNI)

The Arizona Daily Star (Tucson, StarNet)

The Arizona Daily Wildcat (Tucson, U of A)

The Business Journal (Phoenix)

Inside Tucson Business (Territorial Newspapers)

The Daily Territorial

The Lumberjack (Flagstaff, NAU)

The State Press (Tempe, ASU)

Other Arizona Periodicals:

Arizona Highways

Computer Buyer

Echo Magazine

Out on the Net

Entertainment Magazine On-Line (EMOL)

Free Press (Prescott Independent)

<http://aztec.asu.edu/ahc/homepage.html>

<http://www.infop.com/ana/index.html>

<http://www.azcentral.com/>

<http://azstarnet.com/>

<http://www.arizona.edu/pubs/wildcat/wildcat.html>

<http://www.phxbj.com/>

<http://www.infop.com/territ/>

<http://www.infop.com/terr/>

<http://www.thejack.nau.edu/>

<http://aspin.asu.edu/provider/StatePress/>

<http://www.arizhwys.com/>

<http://www.giaco.com/cb/>

<http://www.comeout.com/echo/>

<http://www.comeout.com/home.html>

<http://www.opus1.com/emol/index.html>

<http://www.bsinet.com/accounts/frepress/www/index.html>

LaVidaBuena (SE Arizona)	http://www.lavida.com/
Planet Magazine	http://www.planetmag.com/
Arizona Procurement Technical Assistance Program (APTAN)	(AAVIS-II dial-in (602)945-5452)
Arizona Science Center	http://aztec.asu.edu/government/Tempe/asc/asc.html
Arizona Software Association (ASA)	http://www.syspac.com/~mdixon/asa.html
Arizona Telecommunications and Information Council (ATIC)	(e-mail - atic@rtd.com , WWW pending)
Arizona Telecommunications Community (AzTeC) Computing	http://aztec.asu.edu/
AzTeC Medical Page	http://aztec.asu.edu/medical/med.html
Community And City of Tucson Information NETwork (CACTI-NET)	gopher://econ.tucson,az.us/
Community Information and Telecommunications Alliance & Tucson Link	http://tucsonlink.rtd.com/
Datalink Project (NAFTA/Trade Information Pilot)	http://www.halycon.com/pickard/CANAMEX/
Disabilities Help Line of Arizona	http://sunrise.cirs.org/disabilities.html
ECNet - Joint project Cox, ASU, DEC	http://enws324.eas.asu.edu/cimsys/projects/ecnet/ecnet.html
Governor's Strategic Partnership for Economic Development(GSPED)	http://www.state.az.us/ep/stratpln/gsped.shtml
Information and Referral Services (Tucson)	alternate site - http://www.syspac.com/~mdixon/gsped.html
Directory of Helping Services in Southern Arizona	http://www.azstarnet.com/public/packages/ir/i&rdir.htm
Joint Interoperability Test Command (JITC) - Fort Huachuca	http://jitc-emh.army.mil/
National Law Center for Inter-American Free Trade	http://www.natlaw.com/
Teleservices Industry Group (TIG)	http://www.futurewest.com/gtec/tele.htm

Arizona Counties:

Cochise County	http://www.primenet.com/~vermill/cc/cc.html
Maricopa County Governement	http://www.maricopa.gov/welcome.html
Maricopa Association of Governments (MAG)	http://www.maricopa.gov/mag/mag.html
Maricopa County Library	telnet://library.maricopa.gov/ (username=library)
Superior Court of Arizona in Maricopa County	http://www.maricopa.gov/supcrt/homepg2.html
Pima County Government	http://www.pima.gov/
Justice Courts	http://jp.pima.gov/
National Association of Counties (NACo)	http://pti.nw.dc.us/naco.htm

Arizona Cities and Towns:

Apache Junction	http://ajnet.ci.apache-jct.az.us/
Chandler	http://www.primenet.com/~chandler/
Flagstaff	http://www.flagstaff.az.us/
Greater Flagstaff Economic Council (GFEC)	http://www.flagstaff.az.us/gfec.html
Glendale	http://webber.maricopa.gov/glendale/
Grand Canyon National Park	http://star.ucc.nau.edu/~grandcanyon/
Kearny	http://enws347.eas.asu.edu/~nebeker/kearny.html
Mesa	http://www.ci.mesa.az.us/
Phoenix (at your Fingertips, dial-in (602)534-4300)	http://www.ci.phoenix.az.us/
The Heard Museum	http://www.heard.org/
Phoenix Art Museum	http://aztec.asu.edu/AandE/phoenix.art/index.html
Phoenix Public Library Valleycat	telnet://pac.lib.ci.phoenix.az.us
The Phoenix Zoo	http://aztec.asu.edu/phxzoo/homepage.html
Prescott	http://www.amug.org/~fpc/prescott.html
Salt River Pima-Maricopa Indian Community	http://www.saltriver.pima-maricopa.nsn.us/
Scottsdale	http://www.ci.scottsdale.az.us/
Sedona	http://www.sedona.net/sedona.html
Sierra Vista	http://www.primenet.com/~woodall/sierra.html
Tempe	http://aztec.asu.edu/government/Tempe/tmpmain.html
SuperBowl XXX (Tempe Hotline (602)350-2900)	http://superbowl.asu.edu/
Tempe Historical Museum	http://aztec.asu.edu/government/Tempe/docs/museum.html

Tucson

Greater Tucson Economic Council (GTEC)

Yuma

National League of Cities (NLC)

City.Net (Arizona cities on the web)

<http://tucson.com/tucson/>

<http://www.futurewest.com/>

<http://www.primenet.com/~mlauss/>

<http://pti.nw.dc.us/nlc.htm>

http://www.city.net/countries/united_states/arizona/

Arizona Higher Education:

Arizona Board of Regents

Arizona State University (ASU - Tempe)

Arizona/Sonora NAFTA Internet Page

Arizona State Public Information Network (ASPIN)

Computer Integrated Manufacturing (CIM) Systems Research Center <http://enws324.eas.asu.edu/>

Economic Data - ASU College Of Business

Public Communications Technology Project (PCTP)

Telecommunications Research Center

Arizona Western College (AWC - Yuma)

Central Arizona College (CAC - Coolidge)

Cochise Community College (Douglas)

Eastern Arizona College (EAC - Thatcher)

Embry-Riddle Aeronautical University

Maricopa Community Colleges (11 Campuses)

Mohave Community College (Kingman)

Northern Arizona University (NAU - Flagstaff)

Pima Community College (Tucson)

Prescott College

University of Arizona (U of A - Tucson)

University of Phoenix

Yavapai Community College (Prescott)

American Universities Index (+ links to CC, International) <http://www.clas.ufl.edu/CLAS/american-universities.html>

<http://info.asu.edu/arizona/azbor/homepage.html>

<http://www.asu.edu/>

<http://aspin.asu.edu/~nafta/>

<http://aspin.asu.edu/>

<http://enws324.eas.asu.edu/>

<http://www.cob.asu.edu/seid/asedd.html>

<http://aspin.asu.edu/~pctp/>

<http://emelc1.eas.asu.edu/>

<http://www.awc.cc.az.us/>

<http://www.cac.cc.az.us/>

<http://www.cochise.cc.az.us/>

<http://www.eac.cc.az.us/>

<http://www.pr.erau.edu/>

<http://www.maricopa.edu/>

<http://www.mohave.cc.az.us/>

<http://www.nau.edu/>

<http://www.pima.edu/>

<http://aztec.asu.edu/prescott.col/>

<http://www.arizona.edu/>

<http://www.uophx.edu/>

<http://www.yavapai.cc.az.us/>

Arizona Directory Sites:

Arizona Arts and Entertainment Bulletin Board

The Arizona BusinessWeb Directory

Arizona Destinations

Arizona Gold

Arizona Guide

The Arizona Info-Net

Arizona Information Center

Arizona's WebHub

The Arizona Web

Arizona Web Servers

AtoZinAZ

City.Net (Arizona cities on the web)

Yahoo! Directory - Arizona Sites

<http://aztec.asu.edu/AandE/bulletin/bulletin.html>

<http://biz.rtd.com/>

<http://www.amdest.com/>

<http://www.goldpage.com/travel/arizona/>

<http://www.arizonaguide.com/>

<http://www.primenet.com/~randmo/>

<http://www.azinfo.com/menu.htm>

<http://www.rhinonet.com/webhub/>

<http://arizonaweb.org/>

<http://www.eas.asu.edu/az/servers.html>

<http://www.atozinaz.com/>

http://www.city.net/countries/united_states/arizona/

http://www.yahoo.com/Regional/U_S_States/Arizona/

Miscellaneous Arizona Related Sites:

Arizona High Tech Directory

Arizona State Technology Extension Program (STEP)

The Computer Events Directory - Arizona

EXPO Guide - Arizona (trade shows & conventions)

AZConnect (Political and Public Affairs)

Arizona Macintosh Users Group (AMUG)

Phoenix PC Users Group (PCUG)

<http://www.primenet.com/~keiland/>

<http://www.syspac.com/~mdixon/step.html>

http://www.kweb.com/place/usa_AZ.html

http://www.expoguide.com/shows/data/loc_az.htm

<http://www.getnet.com/azconnect/>

<http://www.amug.org/index.html>

<http://www.phoenixpcug.org/>

Federal Government - Telecommunication Resources :

General Federal Access Points:

CapWeb (Policy Net)	http://policy.net/capweb.congress.html
Connect Directly to U.S. Government Agencies (DOC ITA)	http://www.itaiep.doc.gov/eebic/cduga.html
Federal Web Locator (Villanova Center for Info. Law & Policy)	http://www.law.vill.edu/
FedWorld Information Network (NTIS)	http://www.fedworld.gov/
Government Information Locator Service (GILS)	http://info.er.usgs.gov/gils/index.html

Federal Branches, Departments and Agencies:

Congress (THOMAS Legislative Information)	http://thomas.loc.gov/
U.S. House of Representatives	http://www.house.gov/
U.S. Senate	http://www.senate.gov/
Office of Technology Assessment (OTA)	http://www.ota.gov/
Industry, Telecommunications, and Commerce (ITC)	http://www.ota.gov/itc.html
Congressional Quarterly	gopher://gopher.cqalert.com/
LEGI-SLATE Gopher Service	http://gopher.legislate.com/
The C-SPAN Networks	http://www.c-span.org/
Department of Agriculture (USDA)	http://www.usda.gov/
Rural Economic & Community Development	http://www.rurdev.usda.gov/recdhome.html
Rural Utility Services (RUS)	http://www.rurdev.usda.gov/agency/rus/html/rus_home.html
Department of Commerce (DOC)	http://www.doc.gov/
Department of Commerce Agencies	http://www.doc.gov/resources/doc.agencies.html
Commerce Information Locator Service (CILS)	http://www.doc.gov/inquery/cils.html
National Telecommunications and Information Admin.(NTIA)	http://www.ntia.doc.gov/
Institute for Telecom Sciences (ITS)	http://www.its.bldrdoc.gov/its.html
Other Telecommunications and Information Sources	http://www.ntia.doc.gov/infosites.html
National Institute of Standards and Technology (NIST)	http://www.nist.gov/
Advanced Technology Program (ATP)	http://www.atp.nist.gov/
Office of Technology Policy (OTP)	
Partnerships for a Competitive Economy (PACE)	http://www.doc.gov/pace/pacepge.html
Bureau of the Census	http://www.census.gov/
International Trade Administration (ITA)	http://www.itaiep.doc.gov/eebic/cduga.html
Patent and Trademark Office	http://www.uspto.gov/
U.S. Patent Bibliographic Data at CNIDR	http://patents.cnidr.org:4242/
Stat-USA (business and economic information)	http://www.stat-usa.gov/
National Trade Data Bank (NTDB)	http://www.stat-usa.gov/BEN/Services/ntdbhome.html
National Economic, Social & Environmental (NESE)	http://www.stat-usa.gov/BEN/Services/nesehome.html
Economic Bulletin Board/Lite Edition (EBB/LE)	http://www.stat-usa.gov/BEN/Services/ebbhome.html
Department of Defense (DOD)	
Advanced Research Projects Agency (ARPA)	http://www.arpa.mil/
DefenseLINK	http://www.dtic.dla.mil/defenselink/
Defense Technical Information Web	http://www.dtic.dla.mil/dtiw/
Defense TechTRANSIT (Technology Transfer/Dual Use)	http://www.dtic.dla.mil/techtransit/
Department of Education (DOE)	http://www.ed.gov/
National Institute on Disability and Rehabilitation Research (NIDRR)	http://www.ed.gov/offices/
Department of Health and Human Services (DHHS)	http://www.os.dhhs.gov/
National Library of Medicine (NLM)	http://www.nlm.nih.gov/
Federal Communications Commission (FCC)	http://www.fcc.gov/
Common Carrier Bureau (CCB)	http://www.fcc.gov/ccb.html
Cable Services Bureau (CSB)	http://www.fcc.gov/csb.html
Mass Media Bureau (MMB)	http://www.fcc.gov/mmb.html
Wireless Telecommunications Bureau (WTB)	http://www.fcc.gov/wtb.html
High-Performance Computing and Communications (HPCC)	http://www.hpcc.gov/

Information Infrastructure Task Force (IITF)
 Telecommunications Policy Committee (TPC)
 Information Policy Committee (IPC)
 Committee on Applications and Technology (CAT)
 NII Advisory Council (NIIAC)
 NII Virtual Library
 Library of Congress (LOC)
 Global Electronic Library
 National Academy of Sciences (NAS)
 National Aeronautics and Space Administration (NASA)
 NASA Space Shuttle Home Page
 Advanced Communications Technology Satellite
 National Science Foundation (NSF)
 Science and Engineering State Profiles
 National Technical Information Service (NTIS)
 Securities and Exchange Commission (SEC with Edgar data)
 Smithsonian Institution
 The White House - Executive Branch
 White House Archives at Texas A&M
 Office of Science and Technology Policy

<http://iitf.doc.gov/>
<gopher://ntiant1.ntia.doc.gov:7011s/iitf/telecom>
<gopher://ntiant1.ntia.doc.gov:7011s/iitf/infopol>
<gopher://ntiant1.ntia.doc.gov:7011s/iitf/appstech>
<http://iitf.doc.gov/AdCoun.html>
<http://nii.nist.gov/nii.html>
<http://www.loc.gov/>
<http://lcweb.loc.gov/global/globalhp.html>
<http://www.nas.edu/>
<http://www.nasa.gov/>
<http://www.law.vill.edu/>
<http://kronos.lerc.nasa.gov/acts/acts.html>
<http://www.nsf.gov/>
<http://www.nsf.gov:80/sbe/srs/statepro/start.htm>
<http://www.fedworld.gov/ntis/ntishome.html>
<http://www.sec.gov/>
<http://www.si.edu/start.htm>
<http://www.whitehouse.gov/>
<http://www.tamu.edu/whitehouse/>
<http://www.whitehouse.gov/OSTP.html>

Miscellaneous Federal Government Sites:

National Technology Transfer Center (NTTC)
 SBIR/STTR Solicitations and Awards
 U.S. Government Information Sources
 Small Business Administration (SBA)
 The EC/EDI & CALS Resource Locator
 Government Printing Office (GPO) Access
 GSA Consumer Information Center (CIC)
 Central Intelligence Agency (CIA) 1995 Factbook
 U.S. State Department Travel Advisories
 Federal News Service (FNS)
 Government Technology Links to Government & Associations
 World News Connection (Foreign News Alert - \$)

<http://www.nttc.edu/>
<http://www.nttc.edu/solicitations.html>
http://www.nttc.edu/gov_res.html
<http://www.sbaonline.sba.gov/>
<http://www.fedworld.gov/edicals/locator.html>
http://www.access.gpo.gov/su_docs/
<http://www.gsa.gov/staff/pa/cic/cic.htm>
<http://www.odci.gov/cia/publications/95fact/index.html>
<http://www.stolaf.edu/network/travel-advisories.html>
<http://www.fednews.com/>
<http://www.govtech.net/connect.htm>
<http://wnc.fedworld.gov/>

State Government - Telecommunication Resources :

The Council of State Governments (CSG)
 National Association of Regional Councils (NARC)
 National Assoc. of Regulatory Utility Commissioners (NARUC)
 National Assoc. of State Information Resource Execs (NASIRE)
 National Association of State Telecom Directors (NASTD)
 National Assoc. of Telecom Officers & Advisors (NATOA)
 National Conference of State Legislatures (NCSL)
 National Governors Association (NGA)
 Science and Technology Council of the States (STCS)
 National Regulatory Research Institute (NRRI)
 The State (Educational) Networking Project

<http://www.csg.org/>
<http://narc.org/narc/index.html>
<http://www.puc.state.tx.us/naruc-hp.htm>
<http://www.state.ky.us/nasire/NASIREmain.html>
<http://www.csg/nastd.html>
<http://www.natoa.org/>
<http://www.ncsl.org/>
 (e-mail - jaykayne@mnsinc.com)
<http://www.csn.net/~pvb/stcs.html>
<http://www.eng.ohio-state.edu/nrri.html>
<http://www.tenet.edu/snp/>

Directories of State Government Information:

NASIRE StateSearch
 State Environmental Regulations (Counterpoint)
 State and Local Government on the Net
 State Legislative and Government Information (ASME)
 World Wide Web Virtual Library - State Government Servers
 Yahoo State Government Indexes

<http://www.state.ky.us/nasire/NASIREhome.html>
<gopher://gopher.counterpoint.com/>
<http://www.webcom.com/~piper/state/states.html>
<http://www.asmenet.org/gric/states.html>
<http://www.law.indiana.edu/law/states.html>
<http://www.yahoo.com/Government/States/>

Telecommunication Industry Trade Associations :

Alliance for Competitive Communications (RBOCs)	http://bell.com/
Ameritech	http://www.aads.net/
Bell Atlantic CyberLibrary	http://www.bell-atl.com/pages/high/home.html
Media Relations and Public Archives	http://www.ba.com/
BellSouth	http://www.bst.bls.com/
NYNEX	http://www.nynex.com/
Interactive Yellow Pages (16.5 million U.S. businesses)	http://www.niyp.com/
Pacific Telesis Group	http://www.pactel.com/
Pacific Bell (PacBell)	http://www.pacbell.com/
SBC Communications (Southwestern Bell)	http://www.sbc.com/
US West	http://www.uswest.com/
Integrated Services Digital Network (ISDN)	http://www.uswest.com/isdn/index.html
Interact Internet Services	http://www.uswest.com/interact/intro.html
Other Telecommunications Policy Issue Sites	http://bell.com/sites.html
American Electronics Association (AEA)	http://www.aeanet.org/
Cellular Telecommunications Industry Association (CTIA)	http://www.wireless-apps.com/ctia/index.html
Commercial Internet eXchange (CIX)	http://www.cix.org/
Competitive Long Distance (CLD) Coalition	http://www.cldc.com/
Electronic Industries Association (EIA + Consumer Electronics Mfg. Assoc. -CEMA)	http://www.eia.org/
Information Technology Industry Council (ITIC)	http://www.itic.org/
The Interactive Services Association (ISA)	http://www.isa.net/isa/
International Communications Industry Association (ICIA)	http://www.usa.net/icia/
International Telecommunications Union (ITU - CCITT)	http://www.itu.ch/
Selected Telecommunications WWW Sites	http://www.itu.ch/special/web-sites.html
International Television Association (ITVA)	http://www.itva.org/
Video/Multimedia WWW Sites	http://emporium.turnpike.net/I/itva/wwwsites.htm
MultiMedia Telecomm Association (MMTA)	http://www.mmta.org/
National Association of Broadcasters (NAB)	http://www.nab.org/
Library and Information Center	http://www.nab.org/www/userguid/libhome.htm
Organization for the Protection and Advancement of Small Telephone Companies (OPASTCO)	http://www.assocdata.com/opastco/opastco.html
Software Publishers Association (SPA)	http://www.spa.org/
TeleCommunications Association (TCA)	http://www.dfrontiers.com/tca/
United States Telephone Association (USTA)	http://www.usta.org/
The Wireless Opportunities Coalition	http://wireless.policy.net/wireless/wireless.html

Miscellaneous Telecommunications Vendors:

AT&T	http://www.att.com/
AT&T Toll-Free 800 Directory	http://www.tollfree.att.net/dir800/
Bellcore	http://www.bellcore.com/
DirectTV	http://www.directv.com/
LDDS WorldCom	http://www.wiltel.com/
MCI	http://www.mci.com/
networkMCI Developers Lab	http://www.mci.com/developerslab/
Sprint	http://www.sprint.com/
Telecom Information Clearinghouse (TIC) Companies List	http://guess.worldweb.net:80/tpg/tic/tools/toolcomp.htm

Associations, Foundations and Interest Groups :

Alliance for Public Technology	http://server.idi.net/apt/
American Communications Association (ACA)	http://www.uark.edu/depts/comminfo/www/ACA.html
Telecommunications: Law, Policy and Society	http://www.uark.edu/depts/comminfo/www/telecomm.html
Electronic Reference Resources	http://www.uark.edu/depts/comminfo/www/reference.html
American Library Association (ALA)	http://www.ala.org/

American National Standards Institute (ANSI)	http://www.ansi.org/
Information Infrastructure Standards Panel (IISP)	http://www.ansi.org/iisp/iisphome.html
The Annenberg Washington Program	http://www.annenberg.nwu.edu/
The Aspen Institute	http://www.aspeninst.org/
Association for Computing Machinery (ACM)	http://www.acm.org/
Association of Research Libraries	http://arl.cni.org/
Benton Foundation's Communications Policy Project	http://www.cdinet.com/Benton/
Cyber Pages - Telecom & Non-profit Resources	http://cdinet.com/cgi-bin/lite/Benton/Cyber/links.html
The Bionomics Institute	http://www.bionomics.org/
Carnegie Mellon University - NetBill	http://www.ini.cmu.edu/netbill/
Electronic Commerce Resources	http://www.ini.cmu.edu/NETBILL/commerce.html
The Cato Institute	http://www.cato.org/
Political and Public Policy Links	http://www.cato.org/main/links.html
CAUSE	http://cause-www.colorado.edu/
The Center for Advanced Study in Telecommunications (CAST)	http://express.sbs.ohio-state.edu/cast/
The Center for Civic Networking (CCN)	http://www.civic.net:2401/ccn.html
The Civic Network	http://www.civic.net:2401/
Local Government Resource Directory	http://civic.net/lgnet/directory.html
Telecommunications and Civic Networking Resources	http://www.civic.net:2401/lgnet/telecom.html
The Center for Democracy and Technology	http://www.cdt.org/
Center for Media Education (CME)	http://www.access.digex.net/~cme/
The Center for Networked Information Discovery and Retrieval (CNIDR)	http://kudzu.cnidr.org/
Center for the New West	http://www.commerce.com/cnw/
Centre for Policy Research on Science and Technology (CPROST)	http://edie.cprost.sfu.ca/
Center for Strategic and International Studies (CSIS)	http://www.csis.org/
Global Information Infrastructure Commission (GIIC)	http://www.eds.com/giic/
Center for Telecommunications Research (CTR at Columbia U)	http://www.ctr.columbia.edu/
Mobile Computing Resources	http://www.mcl.cs.columbia.edu/mobile.html
Center on Information Technology Accommodation (CITA)	http://www.gsa.gov/coca/
CICNet	http://www.cic.net/
Rural Datification Project	http://www.cic.net/ruraldata/rd-home.html
Coalition for Networked Information (CNI)	gopher://gopher.cni.org/
Colorado Internet Cooperative Association (CICA)	http://www.coop.net/coop/
The Computer Museum	http://www.net.org
Computer Professionals for Social Responsibility (CPSR)	http://snyside.sunnyside.com/home/
Cross-Industry Working Team (XIWT)	http://www.cnri.reston.va.us:3000/XIWT/public.html
Discovery Institute	http://www.discovery.org/
Educom (Edupage +)	http://www.educom.edu/
Electronic Frontier Foundation (EFF)	http://www.eff.org/
Electronic Privacy Information Center (EPIC, resource links)	http://epic.org/
The George Lucas Educational Foundation	http://www.glef.org/
Institute for Computer and Telecommunications Systems Policy	http://www.seas.gwu.edu:80/seas/ictsp/
Institute for Global Communications (IGC)	http://www.igc.apc.org/
IGC Issues Index Page	http://www.igc.apc.org/igc/issues.html
Institute for Policy Innovation (IPI)	http://www.ipi.org/
Institute of Electrical and Electronic Engineers (IEEE)	http://www.ieee.org/
IEEE USAB TPC CCIP	http://www.ieee.org/usab/DOCUMENTS/FORUM/COMMITTEE/ccip.html
Public Policy Links	http://www.ieee.org/usab/DOCUMENTS/FORUM/OTHER/other_links.menu.html
International Standards Organization (ISO)	http://www.iso.ch/
International Telecom Center (ITC)	http://www.telematrix.com/toc.html
The Internet Engineering Task Force (IETF)	http://www.ietf.cnri.reston.va.us/home.html
The Internet Law Task Force (ILTF)	http://www.nptn.org/cyber.serv/solon/iltf/index.html
Internet Society	http://info.isoc.org/home.html

UNIVERSAL SERVICE TO UNIVERSAL ACCESS

Appendix E - State-by-State Summaries

	<u>Page</u>
State Profile Data Sources	3
Alabama	5
Alaska	7
Arizona	9
Arkansas	11
California	13
Colorado	15
Connecticut	17
Delaware	19
District of Columbia	21
Florida	23
Georgia	25
Hawaii	27
Idaho	29
Illinois	31
Indiana	33
Iowa	35
Kansas	37
Kentucky	39
Louisiana	41
Maine	43
Maryland	45
Massachusetts	47
Michigan	49
Minnesota	51
Mississippi	53

Appendix E - State-by-State Summaries

	<u>Page</u>
Missouri	55
Montana	57
Nebraska	59
Nevada	61
New Hampshire	63
New Jersey	65
New Mexico	67
New York	69
North Carolina	71
North Dakota	73
Ohio	75
Oklahoma	77
Oregon	79
Pennsylvania	81
Rhode Island	83
South Carolina	85
South Dakota	87
Tennessee	89
Texas	91
Utah	93
Vermont	95
Virginia	97
Washington	99
West Virginia	101
Wisconsin	103
Wyoming	105

State Profile Data Sources

STATE DEMOGRAPHICS:

1. **Population:** 1993 Residential Population, U.S. Bureau of Census, Current Population Report.
2. **Size:** 1990 Total Square Mile Area, U.S. Bureau of Census, Census of Population and Housing.
3. **Proportion rural:** 1990 Urban and Rural Population, U.S. Bureau of Census, Census of Population and Housing.
4. **Population per sq. mile:** 1993 Population per Square Mile of Land Area, U.S. Bureau of Census, Census of Population and Housing.
5. **Median household income:** 1992 Money Income of Households -- Median Income, U.S. Bureau of Census, Current Population Report.
6. **Percent below poverty:** 1992 Persons Below Poverty Level, U.S. Bureau of Census, Current Population Report.
7. **Percent on public assistance:** 1992 Public Assistance Recipients (AFDC and SSI), compiled by U.S. Bureau of Census.

TELEPHONE SERVICE DEMOGRAPHICS:

1. **Number of lines:** 1993 Total Presubscribed Lines, FCC Statistics of Communication Common Carriers (Table 2.3).
2. **Number of LECs:** 1994/5 Number of LECs Operating in State, Under Agency Jurisdiction of Not, NARUC Compilation of Utility Regulatory Policy 1994-1995.
3. **BOC:** State contact
4. **Market share of BOC:** 1993 Bell Company Percent of Total Lines in State, FCC Statistics of Communication Common Carriers (Table 2.3).
5. **Penetration rate:** 1994 (March) Percent of Households with Telephone Service, FCC Statistics of Communication Common Carriers (Table 1.5).
6. **Local exchange competition allowed:** 1994 NARUC Report on the Status of Competition in Intrastate Telecommunications.

OPASTCO STUDY:(Keeping Rural America Connected: Costs and Rates in a Competitive Era, 1994. Study of OPASTCO 424 small rural LECs.)

1. **Subscribers per sq. mile:** 1992 Subscribers Per Square Mile Served for Rural Telephone Companies (Fig 2.1 - Col. E).
2. **Difference in non-BOC loop costs:** 1993 Percentage Difference Between the UFS Cost per Loop for BOCs and Non-BOC LECs (Fig. 2.6).
3. **Monthly revenues per customer:** 1992 Local Service Revenues per Subscriber per Month (Fig 4.4 - Col. A).
4. **Revenues if supports eliminated:** 1992 Revised Monthly Local Service Revenues if supports mechanisms were eliminated (i.e., DEM weighting, 25% gross allocator to subscriber line usage, USF, and Lifeline/Link-up America programs) (Fig. 4.4 - Col. C).
5. **Percent who would disconnect:** Percent who said they would disconnect service if local service rates went to revised levels (Fig. 5.2 - Col. C). Based on survey of 1,872 residential subscribers.

TELEPHONE SERVICE TECHNOLOGY:

1. **Copper, Fiber, Hybrid Fiber, Microwave, Other Technology:** State contact
2. **Percent local loop digital:** 1993 Percent of Total Equipped Local Loop Circuits (KM) that are Digital, but does not include interoffice circuits. Computed from FCC Statistics of Communication Common Carriers (Table 2.2).

State Profile Data Sources (Continued)

ADVANCED TELECOMMUNICATIONS:

1. **Cable households:** 1994 Cable Households as a Percent of Television Households, A.C. Nielson Company, Media Research Services Group, US Television Household Estimates.
2. **Cable in schools:** 1993 Cable in the Classrooms as a percent of Total Schools, Cable in the Classroom Members, Quality Education Data, Nielson Media Research.

TELEPHONE SERVICE RATES:

1. **BOC residential rate(s):** State contact and state documents.
2. **LEC residential rates:** State contact and state documents.

UNIVERSAL TELEPHONE SERVICE PROGRAMS:

1. **Status of State Universal Service Program:** State contact
2. **Targeted groups:** State contact and state documents.
3. **Definition of basic service:** State contact and state documents.

STATE UNIVERSAL SERVICE FUND:

1. **Fund Administrator:** State contact and state documents.
2. **Contributors:** State contact and state documents.
3. **Basis for contribution:** State contact and state documents.
4. **Types of subsidies:** State contact and state documents.
5. **Who draws from fund:** State contact and state documents.
6. **Is subsidy portable:** State contact and state documents.

FEDERAL UNIVERSAL SERVICE FUNDS:

1. **Lifeline:** State contact and state documents.
2. **Link-up America:** State contact and state documents.
3. **High Cost Fund:** State contact and state documents.

PENDING ACTIONS: State contact and state documents.

COMMENTS: State contact and state documents.

ADVANCED TELECOMMUNICATION SERVICES:

1. **Programs to Access Video/cable Services:** State contact, state documents, and NASTD.
2. **Programs to Access to Advanced Information Services:** State contact, state documents, and NASTD.
3. **Programs for Electronic Access to Government Documents/Records:** State contact, state documents, and NASTD.
4. **Private/public Partnerships:** State contact, state documents, and NASTD.

1995 NTIA/TIIAP GRANTS: Telecommunications & Information Infrastructure Assistance Program (TIIAP), National Telecommunications and Information Administration (NTIA), U.S. Department of Commerce (DOC).

ALABAMA

Contact: Mary Newmayer, Federal Affairs Advisor
Alabama Public Service Commission
PO Box 991
Montgomery, Alabama 36101
(334) 242-2968 Fax: (334) 242-2041

STATE DEMOGRAPHICS

Population: 4,187,000
Size: 52,237
Proportion rural: 39.6%
Population per sq. mile: 82.5
Median household income: \$25,891
Percent below poverty: 17.1%
Percent on public assistance: 7.1%

OPASTCO STUDY

Subscribers per sq. mile: 13.6
Difference in non-BOC loop costs: 46.7%
Monthly revenues per customer: \$18.94
Revenues if supports eliminated: \$30.42
Percent who would disconnect: 12.90%

ADVANCED TELECOMMUNICATIONS

Cable households: 65.0%
Cable in schools: 68.0%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 2,025,288
Number of LECs: 34
BOC: BELL SOUTH
Market share of BOC: 80.5%
Penetration Rate: 90.7%
LEC competition permitted: 8/95

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes **Hybrid Fiber:** No
Fiber : Yes **Microwave:** No
Percent local loop digital: 18.59%
Other Technology:

TELEPHONE SERVICE RATES

BOC residential rate (\$): \$15.00-\$16.00
LEC residential rates: to

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: No statutes, regulations, or commission orders mandating Universal Service (US)

Targeted Groups: None

Definition of basic service: None

STATE UNIVERSAL SERVICE FUND: No

Fund Administrator:

Contributors:

Basis for contribution:

Types of subsidies:

Who draws from fund:

Is subsidy portable:

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: Yes Link Up: Yes High Cost: Yes

PENDING ACTIONS: The APSC currently has a docket and workshop on US. The purpose of the workshop is to determine if there is a need for a USF, who it should address, who would be eligible, and who should contribute. A recent docket put Bell under price cap so rates will be lowered. There are no pending rate cases. South Central Bell rates will be flat or go down in the future. LEC rates will generally go up to the level of Bell. A recent PSC order required non-Bell LECs to upgrade technology, if they go under price cap.

COMMENTS: Alabama is in the beginning stages of determining the need for a US support mechanism. They currently don't have a definition of basic service or US, but this will be addressed in the workshop.

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services: Cable companies are participating in the US workshop. A number schools use cable to provide distance learning. The PSC does not regulate cable.

Programs to access advanced information services: This is not part of the US workshop. Local access to Internet is not an issue in Alabama. It is being taken care of in urban areas, but this may come up in workshop.

Programs for electronic access to public/government records: Some state agencies are on Internet, but not the commission. Commission doesn't currently have access to Internet. The Department of Industrial Relations Job Kiosk Project has two touch screen kiosks to be placed in high traffic areas such as shopping malls.

Public/private partnerships: Some LECs have a classroom tariff to provide distance learning capabilities. They may expand this to include hospitals.

1995 NTIA/TIIAP GRANTS

University of South Alabama Center for Health Information, Community Health Information Network (CHIN) will give doctors and support staff in area hospitals and health centers access to patient records and medical information. This will increase the quality of care available to this remote and poor population. (Total \$595K, Federal \$225K)

ALASKA

Contact: Phil Trever and Lou Craig
Communication Common Carrier Specialists
Alaska Public Utility Commission
1016 W 6th Ave., Suite 400
Anchorage, Alaska 99501
(907) 276-6222 Fax: (907) 276-0160

STATE DEMOGRAPHICS

Population: 599,000
Size: 615,230
Proportion rural: 32.5%
Population per sq. mile: 1.1
Median household income: \$41,969
Percent below poverty: 10.0%
Percent on public assistance: 6.7%

OPASTCO STUDY

Subscribers per sq. mile: 0.3
Difference in non-BOC loop costs:
Monthly revenues per customer: \$20.94
Revenues if supports eliminated: \$34.73
Percent who would disconnect: 27.10%

ADVANCED TELECOMMUNICATIONS

Cable households: 50.0%
Cable in schools: 35.0%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 316,873
Number of LECs: 23
BOC: na
Market share of BOC: 0.0%
Penetration Rate: 91.6%
LEC competition permitted: policy barrier

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes **Hybrid Fiber:** No
Fiber : Yes **Microwave:** Yes
Percent local loop digital:
Other Technology: Satellite, BETRS

TELEPHONE SERVICE RATES

BOC residential rate (s): na
LEC residential rates: \$5.00 to \$30.00

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: Mandated Universal Service (US) in initial stage of rule making process
Targeted Groups: None
Definition of basic service: None (see pending)

STATE UNIVERSAL SERVICE FUND: No

Fund Administrator:
Contributors:
Basis for contribution:
Types of subsidies:
Who draws from fund:
Is subsidy portable:

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: Yes Link Up: Yes High Cost: Yes

PENDING ACTIONS: The APUC has a rule making docket to adopt US. They are recommending that basic service should include 911, 411, 611, single party, touch tone, white page listing, data transmission over voice grade analog lines and access to optional digital services. The statute allows creation of USF for long distance. Some rural areas have very low penetration rate and are likely targets for US. The APUC is recommending that LECs can only draw from USF, if they participate in the federal programs. At this time they are not sure if there will be a fund or if there is a need for one. If they do set up a USF, all providers will contribute to the fund. Alaska 2000 includes development of a statewide telecommunications plan. The PUC had no rate cases before it.

COMMENTS: Alaska is very dependent on Federal support and they have low subscribership rates in some rural areas. They are looking at issue of US and how to increase subscribership. Alaska has such high cost, they are hoping technology will help them solve the problem.

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services: Rural Alaska TV network (RATNET) provided TV to 248 rural villages via satellite, but state support has been cut and the program ended. It has been succeeded by Alaska Rural Communications Service (ARCS) a rural radio network owned and operated by Native Americans with some state support.

Programs to access advanced information services: One of the principals in the APUC's recommendations says rural areas should have access to advanced information services. They have Internet access providers but not in rural areas. University in Alaska provide access to Internet in rural areas. The PUC has an open docket to upgrade to RUS rules to provide certain data services.

Programs for electronic access to public/government records: The Statewide Library Electronic Doorway(SLED) provides free local access to 93% of population and includes government and business information. The Commission has a Web page and bulletin board. The state created a WWW home page and all state agencies are required to create home pages. They are also exploring the possibility of expanding the WWW service to allow for transaction based processing through Internet services (e.g., renew and pay for driver's licensing, motor vehicle registration, and ferry reservations).

Public/private partnerships:

1995 NTIA/TIIAP GRANTS

Bethel Broadcasting, Inc. Distance Delivery Consortium will use grant funds to connect the people of the Delta with each other, Alaska and the rest of the world. The project will provide remote Alaskan villages with low-cost, local modem access to a commercially owned and operated network. (Total \$734K, Federal \$441K).

State of Alaska Division of Libraries, Archives, and Museums, Southeast Alaska Network (SEAkNet) will provide residents of rural Southeast Alaska access to the information highway via the Statewide Library Electronic Doorway (SLED) for residents of seven isolated communities in Southeast Alaska. They will be able to access in Internet, connect to their state library and government offices, and access information on health, education, community services, and commerce. (Total \$598K, Federal \$223K)

ARIZONA

Contact: Jim Fisher, Executive Consultant
Utilities Division
Arizona Corporation Commission
1200 W. Washington Ave.
Phoenix, Arizona 85007
(602) 542-4251 Fax: (602) 542-5560
2179

*jfisher
@cc.state.az.us*

STATE DEMOGRAPHICS

Population: 3,936
Size: 114,006
Proportion rural: 12.5%
Population per sq. mile: 34.6
Median household income: \$29,593
Percent below poverty: 15.1%
Percent on public assistance: 6.4%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 2,066,054
Number of LECs: 14
BOC: US West
Market share of BOC: 94.0%
Penetration Rate: 94.1%
LEC competition permitted: 7/95

OPASTCO STUDY

Subscribers per sq. mile: 2.6
Difference in non-BOC loop costs: 82.2%
Monthly revenues per customer: \$21.05
Revenues if supports eliminated: \$30.69
Percent who would disconnect: 12.90%

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes **Hybrid Fiber:** No
Fiber : Yes **Microwave:** Yes
Percent local loop digital: 98.47%
Other Technology: BETRS

ADVANCED TELECOMMUNICATIONS

Cable households: 56.0%
Cable in schools: 53.0%

TELEPHONE SERVICE RATES

BOC residential rate (s): \$13.18
LEC residential rates: \$4.50 to \$21.00

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: Mandated Universal Service (US) with approved rules, fund in place
Targeted Groups: Rural/high cost
Definition of basic service: None (see pending)

STATE UNIVERSAL SERVICE FUND:

Fund Administrator: BOC (US West)
Contributors: LECs, BOC, IXCs
Basis for contribution: Surcharge per access line for LECs and per minute of use on intrastate toll carriers
Types of subsidies: Rate subsidy
Who draws from fund: LECs with high cost (only one currently)
Is subsidy portable: No

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: Yes Link Up: Yes High Cost: Yes

PENDING ACTIONS: The ACC is developing a more structured, rule based US program. ACC staff have developed proposed rules which will be before the Commission during the 1st quarter of 1996. This proposed rules define basic service as access to a one-party voice grade line for residential service with touch tone capabilities, access to interexchange carriers, 911, 411, operator services, a white-page directory listing, and telephone relay services for the hearing impaired. Contributors to the fund will include LECs, the BOC, IXC's, and wireless providers including cellular, paging and Commercial Mobil Radio services. The current fund doesn't require everyone to contribute. Contributions for providers of local exchange service will be based on the number of access lines, while IXC's' contributions will be based on percent of total revenues. Any LEC may seek support from the fund with a rate request. A rate subsidy will be provided based on the LEC's costs exceeding an ACC established benchmark cost. US West is the proposed interim administrator of the fund, but that responsibility will shift to an independent third party by July 1996.

COMMENTS: Currently Arizona's US support mechanism is being used by one company. They have a rulemaking proposal that will refine the state's USF, establishing a more structured, rule based US program for Arizona. The state also maintains a telephone assistance program which provides discounted services to the medically needy. The Arizona DES administers the program in cooperation with the ACC and the BOC.

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services: Corporate affiliates of local cable entities are seeking authorization to operate as toll carriers in the state and are being reviewed by the ACC for same. Northern Arizona University's NAUNet is a statewide interactive distance learning network encompassing over 20 independent sites. It is complemented by their NAU Learning Alliance network of more than 100 satellite downlink sites. A metropolitan broadband network, ECNet, has been in trials for several years over existing cable infrastructure as a coalition of Arizona State University, DEC, and Cox Communications aiding Computer Integrated Manufacturing applications.

Programs to access advanced information services: The Governor established the Telecommunications Policy Office to spearhead the effort to promote the development of advanced telecommunication services in Arizona. The Office is responsible for establishing and coordinating statewide telecommunications policy. The Arizona State Public Information Network (ASPIN) is based at Arizona State University (ASU) and has through their statewide backbone connected the three universities, urban and rural community colleges and many other public organizations and communities to the Internet. The Arizona Department of Education (ADE) provides AzEdLink, a program for dial-in Internet access for K-12 schools. AzTeC is the state's Free-Net, currently providing Internet access to over 12,000 and placing public access terminals in the Phoenix area. Arizona Health and Information Network (AZ-HIN) is a non-profit consortium using the Internet to connect hospitals, libraries, teaching and health care institutions.

Programs for electronic access to public/government records: The Corporation commission has a STARPAS program that provides paid access to Commission documents (corporation names, filings, etc.) by local dial-in. They have completed the pilot implementation of a WWW page and will be soon providing public access on the Internet. The Legislature is introducing the Arizona Legislative Information System (ALIS) this session to provide a wide range of Internet accessible legislative information.

Public/private partnerships: The Arizona Telecommunications and Information Council (ATIC) is an economic development foundation providing a forum and facilitation for telecommunications development and advanced applications deployment. Datalink has been a pilot program to discover, catalog and route trade related information that may be further developed.

1995 NTIA/TIAP GRANTS

City of Phoenix, Information Technology Department, will broaden access to its existing network, PhoenixNet, to three underserved target groups, including elderly, disabled, and economically disadvantaged, in 24 public access computer sites established throughout the city. They will also further develop the range of information and services available by dial-in and Internet access with their "Phoenix at your fingertips" program (Total \$572K, Federal \$225K).

Navajo Community College Development Office. This project, in coordination with ASPIN, will expand several existing pilot projects by developing a telecommunications infrastructure consisting of a digital microwave system to link seven NCC campuses and T1 data links to connect the college system to the Internet to form a single virtual campus for the Navajo Nation (Total \$469K, Federal \$225K).

ARKANSAS

Contact: Sam Loudenslager
Sen. Telecommunications Analyst
Arkansas Public Service Commission
1000 Center Bldg.
Little Rock, Arkansas 72201
(501) 682-5821 Fax: (501) 682-5731

STATE DEMOGRAPHICS

Population: 2,424,000
Size: 53,182
Proportion rural: 46.5%
Population per sq. mile: 46.6
Median household income: \$28,893
Percent below poverty: 17.4%
Percent on public assistance: 6.8%

OPASTCO STUDY

Subscribers per sq. mile: 9.6
Difference in non-BOC loop costs: 54.6%
Monthly revenues per customer: \$16.71
Revenues if supports eliminated: \$28.66
Percent who would disconnect: 12.90%

ADVANCED TELECOMMUNICATIONS

Cable households: 60.0%
Cable in schools: 64.0%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 1,172,258
Number of LECs: 27
BOC: Southwest Bell
Market share of BOC: 68.2%
Penetration Rate: 90.0%
LEC competition permitted: prohibited

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes **Hybrid Fiber:** No
Fiber : Yes **Microwave:** No
Percent local loop digital: 99.41%
Other Technology: ISDN

TELEPHONE SERVICE RATES

BOC residential rate (s): \$14.00
LEC residential rates: \$5.00 to \$32.00

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: Mandated Universal Service (US) with approved rules, fund in place
Targeted Groups: Rural/high cost
Definition of basic service: no

STATE UNIVERSAL SERVICE FUND: Yes

Fund Administrator: BOC (Southwestern Bell)
Contributors: LECs, BOC, wireless, IXC
Basis for contribution: % of retail billed minutes of use
Types of subsidies: Rate subsidy
Who draws from fund: LECs with intrastate NTS costs per loop greater than 115% of statewide weighted average
Is subsidy portable: No

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: Yes Link Up: Yes High Cost: Yes

PENDING ACTIONS: Statute gives commission authority to develop USF. Commission hasn't held any hearings since 1986. Fund is to be phased out by 2000 for three companies. Currently there is a Commission order to look at need to continue or change USF. Commission has taken other steps to increase subscribership by participating in Federal programs. GTE rate case - last rate case reduced GTE from \$11 to \$6. Rates are expected to move upward initially, then back down as competitors start to enter the market.

COMMENTS: Arkansas is keenly aware of importance of universal service, and US will get more attention due to competition. The big question is how do you know if you need fund? They don't want to loose US due to local competition. They want to make sure people continue to have access to telephone services.

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services: The APSC has no authority over cable service and no cable operators have applied for certification to provide voice and data services.

Programs to access advanced information services: Act 737 creates the Telecommunications and Information Technology Fund and establishes the Joint Committee on Advanced Communications and Information Technology to review legislation pertaining to telecommunications and public information access as well as setting up the Governor's Telecommunications and Information Advisory Board. Act 10069 appropriates \$2 million from the Telecommunications and Information Technology Fund for grants to public and non-profit entities for the development of a statewide distance learning and telecommunications network.

Programs for electronic access to public/government records: Joint standing committee under Act 737 will look at universal access to government information. Act 1139 creates the Information Network of Arkansas (INA) as a centralized electronic information system by which public information in Arkansas will be provided via dial-in modem and through links to public libraries.

Public/private partnerships: In last SW Bell rate case, over earnings will be used to upgrade infrastructure in hospitals & schools in state.

1995 NTIA/TIIAP GRANTS

Arkansas Delta Housing Development Corporation, Small-Town Anti-Information Redlining (STAIR) project is an 18-month planning project designed to involve local citizens, small-town municipal governments, universities and community organizations in the evolution of the local information infrastructure. (Total \$209K, Federal \$96K)

CALIFORNIA

Contact: Jack Leviza, Chief of Telecommunication Branch
Advisory & Compliance Division, Room 0323
California Public Utility Commission
San Francisco, California 94102
(415) 703-1060 Fax: (415) 703-1965

STATE DEMOGRAPHICS

Population: 31,211,000
Size: 158,869
Proportion rural: 74.0%
Population per sq. mile: 200.1
Median household income: \$35,173
Percent below poverty: 15.8%
Percent on public assistance: 10.7%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 18,015,735
Number of LECs: 23
BOC: Pacific Bell
Market share of BOC: 77.7%
Penetration Rate: 95.2%
LEC competition permitted: 7/95

OPASTCO STUDY

Subscribers per sq. mile: 5.8
Difference in non-BOC loop costs: 74.8%
Monthly revenues per customer: \$20.64
Revenues if supports eliminated: \$48.77
Percent who would disconnect: 44.70%

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes **Hybrid Fiber:** No
Fiber : Yes **Microwave:** No
Percent local loop digital: 9.6%
Other Technology:

ADVANCED TELECOMMUNICATIONS

Cable households: 64.0%
Cable in schools: 58.0%

TELEPHONE SERVICE RATES

BOC residential rate (s): \$11.25
LEC residential rates: \$11.25 to \$17.80

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: Mandated Universal Service (US) with approved rules, fund in place
Targeted Groups: Rural/high cost, Low income/economically disadvantaged
Definition of basic service: Touch tone, voice grade, 911, directory assistance, operator assistance, white pages, long distance, repair service, and privacy protection

STATE UNIVERSAL SERVICE FUND: Yes

Fund Administrator: Independent third party
Contributors: LECs, BOC, IXC, wireless
Basis for contribution: % of billable revenues
Types of subsidies: Rate subsidy for high cost; Company paid difference between rate and subsidy
Who draws from fund: LECs with high cost or eligible subscribers
Is subsidy portable: Yes, for low income

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: No Link Up: No High Cost: Yes

PENDING ACTIONS: California has a major rule making investigation looking at a complete revision of US in response to local competition. State has a US rate statewide that subsidizes individuals. The high cost program will change but not individual subsidy. They plan on being done by the end 1997. They don't want the US program to be less than what exists today, and some are advocating a broader definition. The future US program will target groups that are below statewide penetration rate. They don't currently participate in Lifeline and Link-up America, because they will not validate income. The issue of income validation may be reconsidered. Also, they may eliminate subsidy to non-low income in rural areas. There have been some general rate cases for smaller LECs. There are no new entrants yet, but some are applying - up to 40 new carriers, and 20 resellers. In long run residential rates may go up since the current rate may be too low. Deaveraging of rates may cause some rural rates to go up while urban rates may stay flat. They are investigating wireless technology to serve underserved areas.

COMMENTS: California has the oldest and largest program in the country. It was the model for the Federal programs. Changes in local competition are requiring them to look at a major revision of the program.

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services: The PUC doesn't regulate cable.

Programs to access advanced information services: This may be part of revised program. PUC is seeking Federal authority to use US funds to support advanced information applications. Local call access to Internet is an issue in the state. Legislation passed to encourage availability of telecommuting as a work option and 2 year pilot program completed. Recently passed digital signature law to encourage electronic commerce.

Programs for electronic access to public/government records: There is a statewide program to make government documents accessible on the Internet. Commission has web page. The Legislature has a widely-acclaimed program for Internet access of Bills, available for tracking and in full text along with Committee activity. All state agencies are mandated to develop timetables and plans to provide basic electronic access to public databases. UC Berkeley's Digital Library Project is developing technologies for intelligent access to massive, distributed collections of multi-media documents.

Public/private partnerships: Smart Valley is an extensive, successful and widely-modeled after public-private consortium. They facilitate development of flagship applications in advanced information and telecommunications areas, advance a regional approach to NII deployment in "Silicon Valley" to create an electronic community, foster economic development and drive public awareness and education. Their Joint Venture: Silicon Valley Network hosts a interactive public presence on the Mercury Center online service. The California Voter Foundation (CVF) provides the California Online Voter Guide on the Internet and AOL describing candidates and issues. CommerceNet is one of the first and perhaps most successful large-scale market trials of electronic commerce on the Internet. In 1993, Pacific Bell created the California Research and Education Network (CalREN), a \$25M program to stimulate the development of new applications for high-speed data communications services in telemedicine, online schools, electronic democracy, and new business partnerships and ventures.

1995 NTIA/TIAP GRANTS

Western Consortium for Public Health Dept. of Technical and Information Services, with a variety of public and private partners, will demonstrate and evaluate the benefits of video conferencing and remote-data entry/information gathering via wireless telecommunications in a rural public health environment (Total \$1,581K, Federal \$668K).

HandsNet, Inc., currently brings together more than 4500 public interest and human service organizations across the U.S., providing them with useful on-line information and relevant electronic discussions (Total\$400K, Federal\$200K).

LA County Office of Education Educational Telecommunications Network (ETN) will carry out a comprehensive telecommunications planning process yielding a replicable planning model for schools to use in customizing their infrastructure design (Total\$415K, Federal \$165K).

Plugged In-Learning Through Technology will introduce electronic networks to address the specific needs of a variety of underserved members of the local communities in less affluent E Palo Alto (Total \$440K, Federal \$193K).

Information & Referral Federation of L.A. County, INFO-LINE will provide widespread, low-cost, high-speed access to a comprehensive, centralized and standardized database to improve delivery and access to public welfare system (Total \$172K, Federal \$86K).

Feather Falls Union School District . in an isolated, rural community, will get Internet connectivity to classrooms (Total \$30K, Federal \$13K).

LA County Unified School District will establish an Internet link with local, state and national museums and the city library, providing a free, interactive exchange of information among students, teachers and parents in central community facilities (Total \$417K, Federal \$186K).

Sacramento County Office of Education will demonstrate a model program for delivering literacy services to adults through a cost-effective regional network in 15 predominantly rural counties.(Total \$2,284K, Federal \$764K).

Metropolitan Area Advisory Committee on Anti-Poverty of San Diego County will bring local information and Internet resources to their inner-city community including community organizations (Total \$226K, Federal \$113K).

Hermadad Mexicana Nacional Legal Center will develop a Mobile Job Bank to circulate in underserved Hispanic communities using employment databases to provide job placement and counseling (Total \$782K, Federal \$390).

Santa Ana Unified School District will use an existing cable television network to bring the resources of the Internet to over 50,000 low-income, limited English-speaking K-12 students (Total \$1,330K, Federal \$664K).

Guadalupe Union School District will bring basic Internet connectivity to their isolated, rural school district and community through a communications and information network (Total \$56K, Federal \$28K).

COLORADO

Contact: Warren Wendling, Chief Engineer
Colorado Public Utility Commission
Logan Tower , Office Level 2
1580 Logan St.
Denver, Colorado 80203
(303) 894-2000 ext.: 377 Fax: (303) 894-2065

STATE DEMOGRAPHICS

Population: 3,566,000
Size: 104,100
Proportion rural: 17.6%
Population per sq. mile: 34.4
Median household income: \$32,716
Percent below poverty: 10.6%
Percent on public assistance: 5.0%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 2,071,184
Number of LECs: 36
BOC: US WEST
Market share of BOC: 8.1%
Penetration Rate: 95.7%
LEC competition permitted: 5/95

OPASTCO STUDY

Subscribers per sq. mile: 1.4
Difference in non-BOC loop costs: 91.2%
Monthly revenues per customer: \$21.31
Revenues if supports eliminated: \$36.10
Percent who would disconnect: 27.10%

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes **Hybrid Fiber:** Yes
Fiber : Yes **Microwave:** Yes
Percent local loop digital: 94.04%
Other Technology: ISDN on 70% of lines

ADVANCED TELECOMMUNICATIONS

Cable households: 59.0%
Cable in schools: 75.0%

TELEPHONE SERVICE RATES

BOC residential rate (s): \$17.82
LEC residential rates: \$4.15 to \$30.00

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: Mandated Universal Service (US) approved rules, fund in place
Targeted Groups: Rural/high cost
Definition of basic service: Single party, touch tone, voice grade, fax grade, 911, directory assistance, operator assistance, white pages, long distance, modem capable (2400), repair service, privacy protection

STATE UNIVERSAL SERVICE FUND: Yes

Fund Administrator: Commission
Contributors: LECs, BOC, IXC
Basis for contribution: 50% based on minutes of traffic for IXC's & 50% based on access charge per line per month
Types of subsidies: Rate subsidy
Who draws from fund: LECs with less than 50,000 access lines with costs above the avg. investment for the traffic
Is subsidy portable: No

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: Yes Link Up: Yes High Cost: Yes

PENDING ACTIONS: The CPUC has had a high cost fund in place, and currently they are developing revised rules for the new act. The old version only included small LECs, while the new version includes US West. Under the new bill, US West will be able to draw on the fund and may be receive as much as \$20 million. Current data indicates that rates may be too low, so they may be increased. They will have wireless included as contributor in next round of legislation. They are considering a possible telecommunications trust fund to support development of advanced service. Some LECs may drop out or enter depending on investment cycle. No rate cases are currently filled, and there is a freeze on residential rates. Rates can only increase with additional features. They are half way through the five year program to convert all of their analog microwave to digital. Eventually all of the radio will be digital and it will carry many different types of functions. They continue to deploy digital capacity higher and farther out.

COMMENTS: Basic service is defined as a minimum standard that all have to meet, but this may not encompass economic development for advanced features.

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services: cable providers are not applying now, but they can after new rules are approved.

Programs to access advanced information services: The state is encouraging private competition to bring advanced services to state. If this doesn't work, they may develop other support mechanisms. US West fines for quality of service issues have been applied to fund telecom projects.

Programs for electronic access to public/government records: This is an agency by agency activity. There are government kiosks around the state and many agencies are developing sites on the WWW. The PUC's WWW site features timely news releases including Telecommunication Fund activity. Access Colorado Library and Information Network (ACLIN, created by the Legislature in 1990) is a cooperative project between the Colorado State Library and the Colorado library community. ACLIN seeks to provide electronic access to the information resources of the state's libraries to support the education, business, health, social services, and personal growth activities of the residents of the state.

Public/private partnerships: There is currently a reparation docket underway for US West. They may also set up a telecommunications trust fund to develop infrastructure for distance learning.

1995 NTIA/TIAP GRANTS

State of Colorado - Colorado Advanced Technology Institute is a partnership of federal, state, local and private entities. They have come together to develop a replicable model of how Geographic Information Systems (GIS) can be put to work in addressing a priority problem facing much of rural America. The goal is to balance economic development and population growth while preserving the rural quality of life and environment (Total \$750K, Federal \$375K)

Southern Ute Indian Tribe. This project will provide Internet access to the Southern Ute Indian Tribe to enable them to access important information about education, government, culture, health, and economic development (Total \$552K, Federal 214K).

CONNECTICUT

Contact: Peter Pescosolido, Supervisor of Technical Analysis of Telecommunications
Department of Public Utility Control
1 Central Park Plaza
New Britain, Connecticut 06051
(860) 827-2616 Fax: (860) 827-2613

STATE DEMOGRAPHICS

Population: 3,277,000
Size: 5,544
Proportion rural: 20.9%
Population per sq. mile: 676.4
Median household income: \$41,059
Percent below poverty: 9.4%
Percent on public assistance: 6.0%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 1,856,122
Number of LECs: 3
BOC: NYNEX
Market share of BOC: 0.0%
Penetration Rate: 96.4%
LEC competition permitted: 7/94

OPASTCO STUDY

Subscribers per sq. mile: NA
Difference in non-BOC loop costs:
Monthly revenues per customer:
Revenues if supports eliminated:
Percent who would disconnect:

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes **Hybrid Fiber:** Yes
Fiber : Yes **Microwave:** No
Percent local loop digital: 90.87%
Other Technology:

ADVANCED TELECOMMUNICATIONS

Cable households: 83.0%
Cable in schools: 85.0%

TELEPHONE SERVICE RATES

BOC residential rate (s): \$12.50
LEC residential rates: \$8.00 to \$15.00

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: Mandated Universal Service (US) with approved rules, fund in place
Targeted Groups: Low income/economically disadvantaged
Definition of basic service: Single party, touch tone, voice grade, 911, directory assistance, operator assistance, white pages, long distance access, privacy protection, ANI capability, switching access, receive incoming calls, usage element

STATE UNIVERSAL SERVICE FUND: Yes

Fund Administrator: LECs (changing to independent 3rd party)
Contributors: LECs, BOC, IXC
Basis for contribution: Total gross revenues as a percent of total state revenues
Types of subsidies: Rate subsidy to carrier but is credited on customer's bill
Who draws from fund: Credits go to eligible low income customers, \$3.50 for intrastate and \$3.50 for interstate service
Is subsidy portable: Yes

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: Yes Link Up: Yes High Cost: No

PENDING ACTIONS: Currently the Commission has a proposal from the dominate LEC to establish a high cost USF to off set recent price squeezes. The proposal is under review. Nothing else is pending regarding US, since they just issued new US rules in February 1995. Teleco is in for a rate review, but Commission is committed to no rate increases. With competition, rates should go down. Carriers will be deploying Hybrid Fiber Cable throughout state for next 10 years.

COMMENTS: AT&T plans to start offering local phone service early next year and has targeted Connecticut as its first state to enter this market.

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services: Some cable companies are looking to provide local telephone service.

Programs to access advanced information services: Videoconferencing proposals are under evaluation to furnish both educational and administrative agencies with equipment and support services. Connecticut's Joint Committee on Educational Technology (JCET) assists the State Board of Education and the Board of Governors for Higher Education in coordinating more effective and efficient use of educational technology. This committee has oversight responsibility for the distribution of a \$10.4M Bond Authorization for Technology Infrastructure for Connecticut Public Schools.

Programs for electronic access to public/government records: There is a law on the books requiring electronic access to all offices, and Connecticut agencies' web sites on the Internet are proliferating. The state library is acting as the coordinator for this effort.

Public/private partnerships:

1995 NTIA/TIIAP GRANTS

Bridgeport Futures Initiative, Inc. Bridgeport Futures Initiative, and over 20 community partners, will bring the first electronic network (BridgeNet) to the depressed inner-city of Bridgeport, a designated Enterprise Community (EC) Ten community access points will open in eight low-income neighborhoods, social service workers with laptop computers will visit homes to demonstrate how information technology can be used as a problem solving tool, and trainers will serve as recruiters and mentors. (Total \$695K, Federal \$225K).

National Cristina Foundation. The project will bring together a wide range of non-profits from fifteen states to organize a national system to recycle donated computers. An estimated 80 million personal computers will be "obsolete" by 1998, but by transfer to the public and non-profit sector, may yet be of good use. (Total \$1,960K, Federal \$561K).